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E.O. 12958: DECL: 07/25/2018

TAGS: [KACT](#) [PARM](#) [START](#) [JCIC](#) [INF](#) [US](#) [RS](#) [UP](#) [BO](#) [KZ](#)

SUBJECT: JCIC-XXXII: WORKING GROUP ON TELEMETRY, JULY 22, 2008

REF: 07 STATE 160337

Classified By: Jerry A. Taylor, United States
Representative to the Joint Compliance and Inspection
Commission. Reasons: 1.4(b) and (d).

[1](#)1. (U) This is JCIC-XXXII-014.

[1](#)2. (U) Meeting Date: July 22, 2008
Time: 4:00 - 5:00 P.M.
Place: Russian Mission, Geneva

SUMMARY

[1](#)3. (S) A Telemetry Working Group (WG) meeting was held at the Russian Mission on July 22, 2008. The United States, Kazakhstan and Russia were present. The Russian Delegation stated that two Trident II telemetry issues were resolved after receiving the U.S. Delegation Paper on Trident II Flight Tests of November 4, 2004 and May 9, 2006, dated December 3, 2007 (Reftel). The Russian Delegation offered that, while it still had questions on Peacekeeper telemetry, it would not raise them because they expected that there would be no more Peacekeeper flight-testing.

THE SHORT VERSION

[1](#)4. (S) Kuz'min opened the meeting and stated that the Russian Federation had added this item to the agenda to continue discussions from the last session, which were based on the questions raised in the Russian Federation's Paper of October 17, 2007 (Reftel). He acknowledged receiving a response to the concerns brought up previously about the telemetry recorded at 2344.5 MHz on Tape No. 18 for the Peacekeeper flight test of March 12, 2003 and the telemetry

for Missile No. 1 on Tape B for the Trident II flight test of November 4, 2004. He mentioned that the issues were of a similar character.

TWO DOWN, ONE TO GO, ONE GONE!

¶15. (S) Kuz'min stated that, during the intersession, Russian experts had studied the responses and analyzed the answers which closed two issues concerning Trident II flight tests. The first issue resolved was the explanation of the timing signal and the lack of a time signal for some portions of the data. The second issue was the error in the typographic notes on the tape label, which incorrectly identified Quadrature Amplitude Modulation (QAM)-16 Modified as an encoding method instead of a modulation method. As for clarification regarding the characteristics for the QAM-16 Modified method of modulation, Kuz'min said that the U.S. references provided only the general characteristics, and were still insufficient to reproduce the telemetry information.

¶16. (S) Kuz'min also relayed that, while he did not mention specifics with the Peacekeeper flight test of March 12, 2003, it did not mean that the Russian Federation's concerns were resolved for the Peacekeeper telemetry. He said that the Peacekeeper was no longer deployed and was not expected to

have future flight tests. Russia still had questions regarding the code used to record the telemetry to the magnetic tapes and Kuz'min stated his belief that additional equipment was necessary for the playback of telemetric information. He noted that, if the U.S. uses the Ferher-patented Quadrature Phase Shift Keying modulation method in future tests, he would have to raise the questions again.

DE'JAVU ALL OVER AGAIN?

¶17. (S) Dunn commented that he was glad that the responses in the U.S. Delegation paper, provided at the previous session, resolved two issues related to the Trident II flight tests of November 4, 2004 and May 9, 2006. He stated that, since telemetry was complicated, it was important to receive questions in writing so they could be worked during the intersession. He noted that the United States had not received any additional written questions from the Russian Federation during the last intercessional period.

¶18. (S) Dunn addressed the question of the process used for recording data to the magnetic tapes, and noted that this question was originally raised with regard to the Peacekeeper flight test of March 12, 2003. He reiterated the response provided in the U.S. Delegation Paper on Response to Russian Questions Concerning Telemetric Information for the Peacekeeper Flight Test of March 12, 2003, dated May 29, 2006, stating that the recording was made by digitizing the pre-detection, 30 MHz intermediate frequency output of a receiver tuned to 2344.5 MHz (Reftel). He requested again that the Russian Delegation provide in writing any additional questions.

¶19. (S) Dunn responded to the question regarding the QAM-16 Modified method of modulation used during the Trident II flight tests, stating that the United States had provided the means to play back the data as required in paragraph 4 of Section 1 of the Protocol on Telemetric Information. He reiterated that QAM-16 Modified was a 16 state, two amplitude level, polar, differential phase, absolute amplitude modulation.

¶10. (S) Dunn addressed the Russian points made on the use of the ICS554 digital signal processing device for the Peacekeeper telemetry data recorded on Tape No. 18. He

stated that the question raised previously by the Russian Federation was whether additional equipment was required to play back the telemetry data and the answer was no. He reminded the Russian Delegation that, at the last session, they were asked to provide any further questions in writing.

¶11. (S) Kuz'min recapped for the U.S. Delegation the whole range of telemetry issues discussed at the last session of the JCIC. He went into great detail on the previous questions raised on the Peacekeeper flight test of March 12, ¶2003.

MAKE IT STOP, PLEASE

¶12. (S) Dunn thanked the Russian Federation for its efforts before JCIC-XXXI, stating that having specific questions exchanged during the intersession helped the United States prepare answers to the questions of the Russian Federation. He encouraged the Russian Federation to provide any further questions during the intersession.

¶13. (S) Kuz'min agreed that the exchange of specific questions had helped to answer Russia's questions. He said that there was now an open dialogue in our routine work and it should continue. He also thanked the United States for the prompt request for spare parts and said he is optimistically waiting for the equipment to arrive.

¶14. (U) Documents exchanged. None.

¶15. (U) Participants:

U.S.

Ms. Bosco
Lt Col Comeau
Mr. DeNinno
Mr. Dunn
Maj Edinger
Mr. Fortier
Maj Gondol
Mr. Hanchett
LTC Oppenheim
Mr. Tessier
Mr. Vogel
Mr. Yaguchi
Dr. Hopkins (Int)

KAZAKHSTAN

Col Akhmatelin

RUSSIA

Capt(1st Rank) Kuz'min
Col Novikov
Ms. Komshilova (Int)

¶16. (U) Taylor sends.
TICHENOR

NNNN

End Cable Text